CLAIMS

What is claimed is:

1. A method for operating a mobile equipment (ME) in a wireless network, comprising steps of:

determining a value of a parameter that indicative of a signal quality experienced by the ME;

calculating in the ME an indication of link quality, the calculation employing a filtering operation having a filter length that is a function of the determined parameter; and

reporting the calculated indication of link quality to the wireless network.

2. A method as in claim 1, wherein the step of determining comprises steps of:

deriving an indication of ME speed in the wireless network; and

transmitting the speed indication to the ME.

3. A method as in claim 2, wherein the step of transmitting uses a point-to-point message.

4. A method as in claim 2, wherein the step of transmitting places the speed indication in padding bits of a point-to-point message.

5. A method as in claim 2, wherein the step of transmitting uses a message sent on a Packet Associated Control Channel (PACCH).

6. A method as in claim 2, wherein the step of transmitting uses a message sent in a Packet System Identification 13 (PSI13) message sent on a Packet Associated Control Channel (PACCH).

7. A method as in claim 2, wherein the step of transmitting uses a plurality of bits placed into a Packet System Identification 13 (PSI13) message sent on a Packet Associated Control Channel (PACCH).

8. A method as in claim 2, wherein the step of transmitting uses a plurality of bits placed into padding bits of a Packet System Identification 13 (PSI13) message sent on a Packet Associated Control Channel (PACCH).

9. A method as in claim 2, wherein the step of transmitting uses a plurality of bits for indicating a plurality of speed subranges of a speed range.

10. A method as in claim 2, wherein the step of transmitting uses four bits for indicating 16 speed subranges within a speed range.

11. A method as in claim 1, wherein the determined parameter is used to modify a forgetting factor that influences a length of a filter that operates on link quality measurement data.

12. A method as in claim 1, wherein the determined parameter is used to calculate a forgetting factor that influences a length of a filter that operates on link quality measurement data.

13. A method as in claim 1, wherein the determined parameter is used to modify a forgetting factor that is received in a broadcast message from the wireless network,

the forgetting factor influencing a length of a filter that operates on link quality measurement data.

14. A method as in claim 1, wherein the determined parameter is used to replace a forgetting factor that is received in a broadcast message from the wireless network, the forgetting factor influencing a length of a filter that operates on link quality measurement data.

15. A method as in claim 1, wherein the step of calculating takes into account a derivative of a speed of the ME.

16. A method as in claim 1, wherein the step of calculating operates on a plurality of measurements of one of a mean Bit Error Probability (BEP) or a coefficient of variation of a Bit Error Probability (cv)(BEP).

17. A wireless communications system comprised of a wireless network and at least one mobile equipment (ME) located in a serving cell of said wireless network, further comprising a unit in said wireless network for deriving an indication of a speed of said ME within the serving cell; a transmitter in said wireless network for transmitting the indication of the ME speed to the ME; a receiver in said ME for receiving said transmitted speed indication; and a processor in said ME for implementing a filter for filtering a sequence of link quality measurement data, said filter having a filter length that is a function of a parameter having a value that is a function of said received transmitted speed indication; and a transmitter in said ME for transmitting an indication of said filtered link quality measurement data to a receiver of said wireless network.

18. A wireless communications system as in claim 17,

wherein link quality measurement data is comprised of one
of a mean Bit Error Probability (BEP) or a coefficient of
variation of Bit Error Probability (cv)(BEP).

19. A wireless communications system as in claim 17,
wherein said transmitter in said wireless network transmits
the indication of the ME speed by using a plurality of bits
placed into padding bits of a Packet System Identification
13 (PSI13) message sent on a Packet Associated Control
Channel (PACCH).

20. A method for operating a wireless communications
system comprised of a wireless network and a plurality of
mobile equipment (ME) located in at least one serving cell
of said wireless network, comprising steps of:

determining in the wireless network an indication of
a signal quality experienced by individual ones of the
plurality of ME;

transmitting the determined indications to individual
ones of the ME using a point-to-point message;

in a particular one of the plurality of ME, receiving
the transmitted indication;

using the received indication for setting a length of
a filter that is employed in a filtering operation
that operates on a sequence of link quality
measurement data; and

transmitting a result of the filtering operation to
the wireless network.